# EXHIBIT E2

Page 1

IN THE CIRCUIT COURT OF THE CITY OF ST. LOUIS
STATE OF MISSOURI

GAIL INGHAM, ET AL.,

Plaintiffs,

vs.

Case No.

1522-CC10417-01

JOHNSON & JOHNSON, ET AL.,

Defendants.

Defendants.

DEPOSITION OF PATRICIA MOORMAN, Ph.D., M.S.P.H.

(Taken by Defendants)

Durham, North Carolina

Monday, March 12, 2018

Reported in Stenotype by
Amy A. Brauser, RPR, RMR, CRR
Transcript produced by computer-aided transcription

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|----------------|--|----------|---|
| 1              | APPEARANCES  | 1        | INDEX OF EXAMINATIONS   |
| 2              | ON BEHALF OF THE PLAINTIFFS:<br>STEVE FARIES, ESQUIRE  | 2        | By Mr. Hegarty Page 8, 344, 355   |
|                | The Lanier Law Firm  | 3        | By Mr. Klatt Page 290, 359  |
| 4              | 6810 Cypress Creek Parkway<br>Houston, Texas 77069   | 4        | By Mr. Faries   |
| 5              | (713) 659-5200<br>steve.faries@lanierlawfirm.com   | 5        |   |
| 6              |  | 6        |   |
| 7              | ON BEHALF OF THE DEFENDANTS JOHNSON & JOHNSON AND JOHNSON & JOHNSON CONSUMER COMPANIES INC., NOW KNOWN     | 7        | INDEX OF EXHIBITS   |
| 8              | AS JOHNSON & JOHNSON CONSUMER INC.:  | 8        | NUMBER DESCRIPTION MARKED/IDENTIFIED                                    |
|                | MARK HEGARTY, ESQUIRE  | 9        | Exhibit 1 Plaintiff's Disclosure of 16                                  |
| 9              | Shook, Hardy & Bacon, LLP<br>2555 Grand Boulevard  | 10       | Expert Testimony  |
| 10             | Kansas City, Missouri 64108<br>(816) 474-6550  | 11       | Exhibit 2 CV of Patricia Moorman, 19                                    |
| 11             | mhegarty@shb.com   | 12       | Ph.D., M.S.P.H.,  |
| 12<br>13       | ON BEHALF OF THE DEFENDANT IMERYS TALC AMERICA, INC:<br>MICHAEL R. KLATT, ESQUIRE                          | 13       | Exhibit 3 Reliance Materials of Patricia 19                             |
| 14             | Gordon & Rees, LLP<br>816 Congress Avenue, Suite 1510  | 14       | Moorman, Ph.D.  |
|                | Austin, Texas 78701  | 15       | Exhibit 4 April 1, 2014, letter from FDA 86                             |
| 15             | (512) 391-0197<br>mklatt@grsm.com  | 16       | to Samuel Epstein   |
| 16             | ON BEHALF OF THE WITNESS:  | 17       | Exhibit 5 NCI PDQ Screening and 94                                      |
| 17             |  | 18       | Prevention Editorial Board  |
| 18             | JEFF GIBSON, ESQUIRE<br>Cohen & Malad, LLP   | 19       | Exhibit 6 Ovarian, Fallopian Tube, and 96                               |
| 19             | One Indiana Square, Suite 1400<br>Indianapolis, Indiana 46032  | 20       | Primary Peritoneal Cancer   |
|                | (317) 636-6481   | 21<br>22 | Prevention (PDQ)- Health Professional Version                           |
| 20<br>21       | jgibson@cohenandmalad.com  | 23       | Exhibit 7 IARC Monographs on the 105                                    |
| 22             | ALGO DDEGENT   | 24       | Evaluation of Carcinogenic  |
| 23<br>24       | ALSO PRESENT:<br>Michelle A. Parfitt   | 25       | Risks to Humans   |
| 25             | D 2  |          |   |
| 1              | Page 3   |          | Page 5  |
| 1              | DEPOSITION OF PATRICIA MOORMAN, Ph.D.,   | 1        | INDEX OF EXHIBITS (con't)   |
| 2              | M.S.P.H., a witness called on behalf of Defendant,<br>before Amy A. Brauser, Notary Public, in and for the | 2        | Exhibit 8 Supplemental Selenium May Decrease Ovarian Cancer Risk in     |
| 4              | State of North Carolina, at Cambria Hotel & Suites   | 3<br>4   | African-American Women  |
| 5              | Durham, 2306 Elba Street, Durham, North Carolina, on   | 5        | Exhibit 9 Analgesic Medication Use and 149                              |
| 6              | Monday, the 12th day of March, 2018, commencing at   | 6        | Risk of Epithelial Ovarian  |
| 7              | 9:01 a.m.  | 7        | Cancer in African-American Women  |
| 8              | *****  | 8        | Exhibit 10 Dietary Quality and Ovarian 151                              |
| 9              |  | 9        | Cancer Risk in African-American   |
| 10             |  | 10       | Women   |
| 11             |  | 11       | Exhibit 11 Socioeconomic Status in Relation 154                         |
| 12             |  | 12       | to the Risk of Ovarian Cancer in  |
| 13             |  | 13       | African-American Women: A   |
| 14             |  | 14       | Population-Based Case-Control   |
| 15             |  | 15       | Study   |
| 16             |  | 16       | Exhibit 12 Ovarian Cancer Risk Factors 159                              |
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| 18             |  | 18       | Women   |
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| 20             |  |          |   |
| 21             |  | 21       | Comparative Analysis  |
| 21<br>22       |  | 22       | Exhibit 14 Racial/Ethnic Differences in 174                             |
| 21<br>22<br>23 |  | 22<br>23 | Exhibit 14 Racial/Ethnic Differences in 174 the Epidemiology of Ovarian |
| 21<br>22       |  | 22       | Exhibit 14 Racial/Ethnic Differences in 174                             |

2 (Pages 2 to 5)

Page 54 Page 56 1 THE WITNESS: I would say -- repeat the 1 Q. When I talk about the studies looking at 2 2 question, please. asbestos and ovarian cancer, do you understand that 3 BY MR. HEGARTY: 3 I'm separating those out of the talcum powder products 4 Q. Sure. If I ask you the same series of 4 looking at ovarian cancer? Do you understand that? 5 questions about talc without asbestos as it relates to 5 A. Yes, I do understand that. 6 your primary opinion about talc increasing the risk of 6 Q. And do you know how many studies that have 7 7 ovarian cancer in users versus nonusers, but I asked looked at asbestos exposure in ovarian cancer that are 8 those same questions as to talc causing ovarian 8 occupational exposures? 9 9 cancer, you would give me the same answers; is that A. I do not know the exact number. I know 10 10 that there have been quite a few. correct? 11 MR. FARIES: Objection to form. 11 O. Do you know if there have been any 12 12 THE WITNESS: My answer would be that nonoccupational exposure studies looking at asbestos 13 talcum powder products on the basis of how women 13 exposure in ovarian cancer? 14 reported them in these studies based on the 14 A. Yes, there are studies characterized as 15 entire body of literature, yes, I would say that 15 more environmental asbestos exposure. 16 talcum powder products, it can cause ovarian 16 Q. Can you name for me any such studies? 17 17 A. I cannot name the specific authors. I cancer. 18 BY MR. HEGARTY: 18 believe that there was a study that was done in 19 O. If the evidence establishes that Johnson 19 Australia where women were not directly occupationally 20 baby powder and Shower to Shower have been asbestos 20 exposed, but it was thought that they had exposure 21 free over the years, is it correct that you would not 21 either through inhalation exposure or, perhaps, 22 have the opinion that Johnson baby powder and Shower 22 through a family member involved in the industry. 23 to Shower cause ovarian cancer? 23 Q. Do you know how many total women have been 24 24 MR. FARIES: Objection to form. Objection studied in the studies looking at asbestos exposure in 25 to the incomplete hypothetical. 25 asbestos -- I mean, in ovarian cancer? Page 57 Page 55 1 BY MR. HEGARTY: 1 A. I do not know the exact number. 2 2 Q. You can answer. Q. Are you aware of the difficulties that 3 3 have existed over time distinguishing between A. Okay. My opinion is not based on --4 exclusively on them containing asbestos. My opinion 4 peritoneal mesothelioma and ovarian cancer? 5 is based on the talcum powder products that the women 5 MR. FARIES: Objection to form. 6 reported in our -- in the studies. 6 THE WITNESS: I am aware that that has 7 7 Q. Is it your opinion that asbestos causes been an issue that has been discussed in the 8 8 ovarian cancer? literature. 9 9 A. Yes. BY MR. HEGARTY: 10 10 Q. Have you done an in-depth analysis of the Q. What are the difficulties in literature looking at asbestos exposure in ovarian 11 distinguishing between peritoneal mesothelioma and 11 12 cancer? 12 ovarian cancer? 13 A. I have looked at the literature related to 13 MR. FARIES: Objection to form. 14 asbestos in ovarian cancer, yes. 14 THE WITNESS: Many times ovarian cancer is 15 15 Q. How many studies have looked at the rather advanced when it is diagnosed, and there 16 potential link between asbestos and ovarian cancer? 16 can be some involvement throughout the 17 MR. FARIES: Objection to form. 17 peritoneum, and sometimes -- so some authors 18 THE WITNESS: I cannot give you an exact 18 have indicated that it can be a little bit 19 answer. 19 difficult or have raised the opinion that it 20 20 BY MR. HEGARTY: might be difficult to distinguish between an 21 21 Q. Do you list all of the studies you ovarian and a peritoneal. 22 reviewed with regard to asbestos only in ovarian 22 BY MR. HEGARTY: 23 cancer in your disclosure, Exhibit Number 3? 23 Q. That difficulty can lead to a 24 A. I don't know. I don't know. There have 24 misclassification of cases in controls, correct? 25 been quite a lot of those studies. 25 A. That has been an issue discussed in the

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Page 58 Page 60 1 literature. conclusion either -- or either the overall conclusion 2 2 or the -- the strength of the association that you're Q. And misclassification -- such 3 3 misclassification would also be called looking at. 4 misclassification bias, correct? 4 Q. Would you agree that exposure to asbestos 5 5 A. It -- yes, it is a potential bias, yes. through perineal cosmetic talc use, assuming that talc 6 Q. And such a potential bias can affect the has asbestos in it, is different from an occupational 6 7 7 results of any study looking at asbestos exposure in exposure to asbestos in a factory or in a plant? 8 ovarian cancer, correct? 8 MR. FARIES: Objection to form. 9 9 MR. FARIES: Objection to form. THE WITNESS: So you -- is exposure to 10 THE WITNESS: Yes, we examine biases, 10 asbestos in an occupational exposure different 11 potential biases because of our concern about 11 than exposure through use in talcum powder? BY MR. HEGARTY: 12 how they might affect the conclusions of the 12 13 study. 13 Q. Assuming for purpose of the question that 14 BY MR. HEGARTY: 14 talcum powder has asbestos in it. 15 Q. And have the studies that have looked at 15 A. Has asbestos in it. 16 asbestos exposure in ovarian cancer considered 16 MR. FARIES: Objection to form. THE WITNESS: They are somewhat different 17 confounding as it relates to whether you're looking at 17 occupational versus nonoccupational -- strike that. exposures. 18 18 19 Let me start over again. 19 BY MR. HEGARTY: 20 Have there been studies looking at or 20 Q. How are they different? 21 trying to address confounding as an independent risk 21 A. In the -- probably in the level of 22 factor? 22 exposure. 23 23 Q. Would you agree that studies that have MR. FARIES: Objection to form. THE WITNESS: Off the top of my head, I 24 looked at, for example, women working in factories 24 2.5 can't recall the extent to which they address 25 where asbestos is part of the product have a different Page 59 Page 61 1 confounding in those studies. 1 level of exposure than women who use talcum powder 2 2 products, assuming for the question that there is even BY MR. HEGARTY: 3 Q. For example, in the talc ovarian cancer 3 any talc -- any asbestos in talcum powder products? 4 studies, a number of factors are adjusted for in those 4 MR. FARIES: Objection to form. 5 studies to address confounding, correct? 5 THE WITNESS: I think that it is 6 A. Yes, that is very common. 6 reasonable to assume that women who are working 7 7 Q. And have the studies that have looked at in an occupation that makes asbestos-based 8 8 products, that they're going to have a different asbestos exposure in ovarian cancer all accounted for 9 or adjusted for potential confounding factors such as 9 level of exposure than women who have -- who use 10 10 talcum powder products. other risk factors for ovarian cancer? 11 MR. FARIES: Objection to form. 11 BY MR. HEGARTY: 12 THE WITNESS: As I answered previously, I 12 Q. That different level of exposure would be 13 cannot recall in those studies the degree to 13 a higher level of exposure, correct? which they controlled for confounding. 14 A. In -- most likely, yes. 14 15 15 Q. Have you made any effort to quantify the BY MR. HEGARTY: Q. If studies don't control for confounding, 16 differences in exposures between the occupational 16 17 again, that can lead to results that are potentially 17 studies looking at asbestos and ovarian cancer and 18 inaccurate, correct? 18 studies looking at talcum powder products and ovarian 19 MR. FARIES: Objection to form. 19 cancer? THE WITNESS: If you do not control for 20 20 A. I have -- I have not done that. However, 21 confounding, it is a potential bias, yes. 21 I think that it is important to bear in mind that 22 22 several authoritative bodies have designated that BY MR. HEGARTY: Q. And a potential bias can distort the 23 23 there is no safe level of asbestos exposure. results of the study, correct? 24 24 Q. Is it your opinion that there is no safe 25 A. It can lead to making an inaccurate 25 level of asbestos exposure?

Page 62 Page 64 1 A. It is my opinion. which subtypes were considered. 2 Q. And what is that opinion based on? 2 Q. Generally what had been the range of 3 3 A. My opinion is based on, as I said, several relative risks or odds ratios reported between 4 organizations: The World Health Organization, and I 4 asbestos exposure and ovarian cancer? 5 believe NIOSH has also indicate -- and The World Trade 5 MR. FARIES: Objection to form. 6 Organization. I believe that all of them have issued THE WITNESS: You know, there have been 6 7 7 documents indicating that there is no safe level of many papers that have -- that I have looked at. 8 asbestos exposure. 8 All of the papers have many numbers reported in 9 Q. Any other authorities that you would cite 9 them, so it's rather hard to say precisely. It 10 to for support for your opinion that there is no safe 10 seems like most of them are in the range of 11 level of asbestos exposure? 11 standard mortality ratios around 3ish. 12 A. Those are the ones that come to mind. 12 BY MR. HEGARTY: 13 Q. In the studies that have looked at 13 Q. Well, do you have an opinion as to the 14 asbestos exposure in ovarian cancer, what types of 14 overall relative risk of ovarian cancer with talcum 15 asbestos have they looked at? 15 powder product use? 16 MR. FARIES: Objection to form. 16 A. The range, the overall --THE WITNESS: Once again, I -- I cannot 17 17 Q. Let me ask it again. Do you have a recall specifically what they had looked at. particular relative risk or odds ratio that you 18 18 19 BY MR. HEGARTY: 19 attribute to exposure to talcum powder products in 20 Q. What is the most common type of asbestos? 2.0 ovarian cancer? 21 MR. FARIES: Objection to form. 21 A. Okay. 22 THE WITNESS: Once again, I want to point 22 MR. FARIES: Objection to form. 23 out that I am not a mineral specialist. My 23 THE WITNESS: Based on multiple 24 2.4 understanding is that all forms of asbestos are meta-analyses, the summary relative risk, the 25 not good for you and all should be avoided, so 25 overall relative risk associated with talcum Page 65 Page 63 1 I -- I really never considered that as I, you 1 powder use has been approximately 1.25, 1.3. 2 know, evaluated or read that literature. 2 BY MR. HEGARTY: 3 3 Q. And have you determined such a overall BY MR. HEGARTY: 4 relative risk for asbestos exposure in ovarian cancer? 4 Q. Can you name the various types of 5 asbestos? 5 A. There have been meta-analyses that have 6 A. Some of them. 6 looked at that. Off the top of my head, I cannot 7 7 Q. Tell me the names that you know. recall the exact value. 8 A. Tremolite and chrysotile, and I know there 8 MR. FARIES: I'm sorry, can we pause for a 9 are others, but I can't recall them. 9 second? I'm going to see if I can get these 10 10 guys in the hallway outside just to quiet down Q. Does the effect of various types of 11 11 asbestos -- strike that. for a sec. 12 Is the risk of ovarian cancer affected by 12 (DISCUSSION HELD OFF THE RECORD) 13 the type of asbestos to which a person is exposed to? 13 BY MR. HEGARTY: 14 In other words, is the risk different by -- based on 14 Q. The last question really went back to the 15 subtype or subtype of asbestos? 15 previous one where I had asked you whether you 16 16 formulated an opinion or came to an overall relative MR. FARIES: Objection to form. 17 THE WITNESS: I don't know that any 17 risk or odds ratio for talcum powder use in ovarian 18 literature has actually evaluated that. I... 18 cancer that you then responded by saying as 1.25 to 19 BY MR. HEGARTY: 19 1.3. So my question was whether you've done the same 20 20 Q. How about as to subtype of ovarian cancer, thing as to the literature looking at asbestos is there certain subtypes of ovarian cancer that are 21 exposure and to be more specifically, occupational 21 22 22 believed more strongly linked to asbestos exposure asbestos exposure and ovarian cancer? 2.3 23 MR. FARIES: Objection to form. than others? 24 A. I don't recall in the studies that have 24 THE WITNESS: Okay. Once again, I have 25 looked at it in relation to asbestos, the extent to 25 read that literature, and I have read hundreds

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Page 118 Page 120 products are at a higher risk of ovarian cancer than 1 THE WITNESS: I can't recall any -- any 2 document that has that exact phrasing. 2 women who did not use them? 3 BY MR. HEGARTY: 3 A. That is correct. 4 Q. Can you cite for me any author in any 4 Q. And before you were contacted by 5 publication who has ever stated that use of talcum 5 Mr. Gibson or Ms. Parfitt, I take it from your last 6 powder products increase the risk of ovarian cancer? 6 answer, that you had not come -- yet come to the 7 A. I'm just having trouble recalling any 7 opinion that talcum powder products cause ovarian 8 specific wording like that. 8 cancer, correct? 9 9 Q. Can you identify for me any doctor who MR. FARIES: Objection to form. 10 treats ovarian cancer who has the same opinions you do 10 THE WITNESS: I -- epidemiologists by 11 about cause? 11 nature tend to be very cautious. And it was, 12 MR. FARIES: Objection to form. 12 you know, reviewing all of the literature in 13 THE WITNESS: I actually have not 13 probably more detail than I had ever reviewed it 14 discussed that with -- that specific question 14 before led me to come to the conclusion that I 15 with any gynecologic oncologist. 15 think that the evidence is strong enough to say 16 BY MR. HEGARTY: 16 with a reasonable degree of scientific certainty 17 Q. Have you discussed with any gynecologic 17 that talc use can cause ovarian cancer. oncologist your opinion that talcum powder products 18 18 BY MR. HEGARTY: 19 increase the risk of ovarian cancer? 19 Q. Have you ever used, before being contacted A. I have not had a specific discussion in 20 20 by Plaintiffs' counsel in this case, the phrase 21 that regard, no. 21 "reasonable degree of scientific certainty"? 22 Q. You provided to us the primary opinion in 22 A. I don't think that I have. 23 this case that women who use talcum powder products 23 Q. What does that phrase mean to you? 24 24 are at a higher risk of ovarian cancer than women who A. I take it to mean that when considering 25 did not use them. Do you recall making that 25 the bulk -- the overall evidence, that it is Page 119 Page 121 1 statement? 1 reasonable to make that statement. I think that it 2 2 takes -- it takes into account that science evolves 3 3 Q. Did you have that opinion before being and there may be additional data that could arise 4 contacted by Plaintiffs' counsel in this case? 4 and -- in which the opinion may evolve, but based on 5 A. I had the opinion that women who use body 5 the body of evidence now I do feel that there is 6 powder are at increased risk for ovarian cancer for, 6 reasonable scientific certainty. 7 yes, before I was contacted by the Plaintiffs' 7 Q. With regard to your prior testimony as to 8 8 attorneys. looking at cause versus increased risk, you mentioned 9 9 that that opinion came after you had done an in-depth Q. You also provided the opinion that women 10 10 who use that -- strike that. review, correct? You also provided the opinion that talcum 11 11 A. That is correct. 12 powder products cause ovarian cancer. Do you recall 12 Q. So it would be a fair statement to say 13 making -- telling us that today? 13 before you were contacted by either Mr. Gibson or 14 A. I do. 14 Ms. Parfitt that you had not done an in-depth review 15 of all of the literature concerning talcum powder 15 Q. Did you have that opinion before being 16 contacted by Plaintiffs' counsel in this case? 16 products and ovarian cancer, correct? 17 A. My opinion, I think that it became 17 MR. FARIES: Objection to form. 18 stronger as I reviewed the body of literature in -- in 18 THE WITNESS: I think that it is a matter 19 relation to this. It was -- I held the opinion that 19 of degree. I think that I was aware of the 20 it was a risk factor. It became stronger as I really 20 epidemiologic studies that had addressed this. 21 21 delved into it in greater detail. And as I was -- after I was contacted about this 22 O. And let me make sure I'm clear on 22 case, I tried to do a very critical, very 23 Plaintiffs' counsel. Before being contacted by 23 in-depth reviews. 24 Mr. Gibson or Ms. Parfitt is it your testimony that it 24 BY MR. HEGARTY:

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Q. A review you had not yet done before being

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was your opinion that women who used talcum powder

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|    | Page 122   |    | Page 124   |
|----|--|----|--|
| 1  | contacted by Ms. Parfitt and/or Mr. Gibson, correct?   | 1  | MR. FARIES: Objection to form.                       |
| 2  | MR. FARIES: Objection to form.                         | 2  | THE WITNESS: The only discussion that I              |
| 3  | THE WITNESS: As I said, I think that it                | 3  | had about my involvement in this was with an         |
| 4  | is not a matter of had I not or had I done it, I       | 4  | author. It was a former student, and she had         |
| 5  | think that it was, perhaps, the level of detail.       | 5  | been contacted by an attorney and asked me what      |
| 6  | BY MR. HEGARTY:  | 6  | I thought about it and if I had had any              |
| 7  | Q. You did a more detailed review and                  | 7  | involvement. And I had just mentioned to her         |
| 8  | analysis after being contacted by Ms. Parfitt and/or   | 8  | that I was working with the Plaintiffs'              |
| 9  | Mr. Gibson than you had done before they had contacted | 9  | attorney. But I have not discussed otherwise.        |
| 10 | you, correct?  | 10 | BY MR. HEGARTY:                                      |
| 11 | MR. FARIES: Objection to form.                         | 11 | Q. Who was that person?                              |
| 12 | THE WITNESS: Correct.                                  | 12 | A. Who was the person?                               |
| 13 | BY MR. HEGARTY:  | 13 | Q. Yes.  |
| 14 | Q. Have you ever provided the opinions you've          | 14 | A. Her name is Rachel Weber.                         |
| 15 | given us here today to any doctor who has ever treated | 15 | Q. When did this discussion happen?                  |
| 16 | a patient for ovarian cancer?                          | 16 | A. I believe it was in the fall of last year.        |
| 17 | A. I have not.   | 17 | Q. Would it be a fair statement that with            |
| 18 | Q. That includes any doctor at Duke, correct?          | 18 | regard to the opinions you've offered in this case,  |
| 19 | A. That is correct.                                    | 19 | that you've held those opinions for at least a year? |
| 20 | Q. You've not told your opinions about talc            | 20 | MR. FARIES: Objection to form.                       |
| 21 | and ovarian cancer to any doctor in your own medical   | 21 | THE WITNESS: Yes, that is a fair                     |
| 22 | school, correct?                                       | 22 | statement.   |
| 23 | MR. FARIES: Objection to form, asked and               | 23 | BY MR. HEGARTY:                                      |
| 24 | answered.  | 24 | Q. Sitting here today you're not testifying          |
| 25 | THE WITNESS: That is correct.                          | 25 | on behalf of Duke University, correct?               |
|    | Page 123   |    | Page 125   |
| 1  | BY MR. HEGARTY:  | 1  | A. No, I am not.                                     |
| 2  | Q. Do you know any of the gynecologic                  | 2  | Q. You're not coming here today testifying           |
| 3  | oncologists at Duke?                                   | 3  | that Duke University or the Duke Medical School has  |
| 4  | A. Yes, I do.  | 4  | the same opinions that you do, correct?              |
| 5  | Q. Can you name for me the ones you know?              | 5  | MR. FARIES: Objection to form.                       |
| 6  | A. I know Dr. Andrew Berchuck, Dr. Laura               | 6  | THE WITNESS: No, I am not.                           |
| 7  | Havrilesky. I have met Angeles Alvarez Secord. I       | 7  | BY MR. HEGARTY:                                      |
| 8  | believe those are the ones that I know.                | 8  | Q. You're here on your own behalf, right?            |
| 9  | Q. You've not spoken to them about your                | 9  | A. That is correct.                                  |
| 10 | opinions that you provided here today, correct?        | 10 | Q. And the opinions you hold are your own            |
| 11 | A. I have not had a direct conversation with           | 11 | opinions, right?                                     |
| 12 | them.  | 12 | A. That is correct.                                  |
| 13 | Q. Well, have you had any conversation with            | 13 | Q. Can you identify for me any regulatory            |
| 14 | them about your opinions in this case?                 | 14 | body who has required a warning concerning genital   |
| 15 | A. No, I have not.                                     | 15 | talc use and ovarian cancer?                         |
| 16 | Q. Have you told any of the authors that               | 16 | MR. FARIES: Objection to form.                       |
| 17 | you're on in the Schildkraut paper of your opinions in | 17 | THE WITNESS: No, I cannot.                           |
| 18 | this case?   | 18 | BY MR. HEGARTY:                                      |
| 19 | MR. FARIES: Objection to form.                         | 19 | Q. How about any regulatory body who has             |
| 20 | THE WITNESS: No, I have not discussed my               |    | concluded that genital talcum powder use is a risk   |
| 21 | involvement in this case with any of the               | 21 | factor or a cause of ovarian cancer?                 |
| 22 | authors.   | 22 | MR. FARIES: Objection to form.                       |
| 23 | BY MR. HEGARTY:  | 23 | THE WITNESS: No, I cannot.                           |
| 24 | Q. How about any of the authors on any of the          | 24 | BY MR. HEGARTY:                                      |
| 25 | papers you've been on?                                 | 25 | Q. Outside of your work with Plaintiffs'             |

Page 126 Page 128 counsel, has anyone before being contacted by 1 1 specifically a cancer epidemiology course. 2 Plaintiffs' counsel sought out your opinions regarding 2 Q. Have you ever provided to any of your 3 3 peers in any lecture format or otherwise the opinions talc and ovarian cancer? 4 A. Before Plaintiffs' counsel --4 you've offered here today? 5 5 Q. Yes. A. No, I have not. 6 6 A. -- contacted me, has anybody else sought Q. Do you consider yourself an expert in the 7 7 out my opinion? possible association between asbestos -- strike that. 8 Q. Correct. 8 Do you consider yourself to be an expert in asbestos-causing ovarian cancer? 9 A. No. 9 10 Q. Before being contacted by Plaintiffs' 10 MR. FARIES: Objection to form. counsel, has anybody sought out your opinion on 11 11 THE WITNESS: I consider myself to be an whether talcum powder products increase the risk of 12 12 expert in the epidemiology of ovarian cancer. I 13 ovarian cancer? 13 do not consider myself to be, specifically, an 14 A. No. 14 expert about asbestos. 15 Q. Or about potential causes of ovarian 15 BY MR. HEGARTY: 16 cancer, generally? Has anybody -- strike that. 16 Q. Have you conducted any original research 17 Has anybody sought out your opinions, 17 on asbestos in talcum powder products and ovarian generally, about the causes of ovarian cancer? 18 18 cancer? 19 A. I'm not sure exactly how to interpret that 19 MR. FARIES: Objection to form. 20 question. I have -- you know, I have done things over 20 THE WITNESS: Please state that again. 21 the course of my career such as reviewing grant 21 BY MR. HEGARTY: 22 applications, several years ago participated in a CDC 22 Q. Sure. Have you conducted any original panel about ovarian cancer. And so those I think that 23 23 research looking at the potential for asbestos to be 24 it would be fair to characterize them as people 24 in talcum powder products? 2.5 seeking my opinion about -- my -- my opinion, my 25 A. I think this goes back to the questions Page 127 Page 129 1 knowledge about ovarian cancer. 1 that you've asked earlier. As you clearly know, we Q. I'd asked you previously about your 2 did do a study that was evaluating talcum powder in 3 opinions before being contacted by Plaintiffs' counsel relation to ovarian cancer, and so talcum powder with 3 4 through the present date. Have you provided the 4 all its constituents. We would not be able to 5 opinions you've given us here today to any group, 5 distinguish between asbestos-containing and 6 person or entity outside of this litigation? nonasbestos-containing talcum powder. 6 7 7 MR. FARIES: Objection to form. Q. My question is a little bit different. 8 THE WITNESS: No, I have not. 8 You had commented earlier about reviewing studies or 9 9 BY MR. HEGARTY: literature that has commented on the potential for asbestos to be in talcum powder products. Do you 10 Q. Has NCI ever sought out your opinions with 10 regard to talcum powder products and ovarian cancer? 11 recall saying that earlier? 11 A. No, they have not. 12 12 A. That I looked at some of those studies. 13 Q. How about any scientific or medical body 13 Q. Have you ever been involved in any study looking at whether talcum powder products actually had 14 or organization? 14 15 A. No, they have not. 15 asbestos in them? Q. Do you teach courses? 16 MR. FARIES: Objection to form. 16 17 A. Yes, I do. 17 THE WITNESS: Once again, that is outside 18 Q. Is that currently? 18 of my realm of expertise. I do not do any 19 A. Yes. 19 mineral studies, testing, like that. Q. Have you ever taught to any of your 20 BY MR. HEGARTY: 20 opinions -- have you ever taught to any of the 21 Q. Has there been any study looking at 21 actually asbestos in talcum powder products and that students in your classes the opinions you've provided 22 22 23 to us here today? 23 link -- and such a link -- strike that. Let me say it 24 A. No, I do not teach -- the course that I 24 again.

Have there been, actually, any studies

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25

teach is called, Evidence-based Medicine. It is not

|    | Page 130   |    | Page 132   |
|----|--|----|--|
| 1  | that have identified products, talcum powder products, | 1  | MR. FARIES: Objection to form.                         |
| 2  | that actually have asbestos in them and looking at     | 2  | THE WITNESS: I know several women who                  |
| 3  | those products link to ovarian cancer?                 | 3  | have ovarian cancer. I have not spoken to them,        |
| 4  | MR. FARIES: Objection to form.                         | 4  | specifically, about their use of talcum powder.        |
| 5  | THE WITNESS: I think that it goes back to              | 5  | But it is a quite ubiquitous exposure, so it is        |
| 6  | the same thing that I've said before. There is         | 6  | very possible that they did have that exposure.        |
| 7  | no way to do studies of ovarian cancer and in          | 7  | BY MR. HEGARTY:  |
| 8  | relation to talcum powder use to distinguish           | 8  | Q. Is it correct that you don't intend, in             |
| 9  | between asbestos-containing or not.                    | 9  | this case, to offer the opinion that any particular    |
| 10 | BY MR. HEGARTY:  | 10 | woman's use of talcum powder products caused their     |
| 11 | Q. You are not a medical doctor, correct?              | 11 | ovarian cancer?  |
| 12 | A. That is correct.                                    | 12 | A. I was asked to comment on the general               |
| 13 | Q. And you have never been involved in the             | 13 | causation meaning it is pulling on my expertise as a   |
| 14 | care and treatment of a patient with ovarian cancer,   | 14 | population scientist. I will not be commenting on any  |
| 15 | correct?   | 15 | specific woman.  |
| 16 | A. No, I have not.                                     | 16 | Q. If we talk about statistical significance           |
| 17 | Q. You are not authorized to treat patients,           | 17 | and if we look at relative risk or odds ratios, in     |
| 18 | correct?   | 18 | that analysis one is considered the null value,        |
| 19 | A. No, I am not.                                       | 19 | correct?   |
| 20 | Q. And you have never analyzed a patient's             | 20 | A. That is correct.                                    |
| 21 | risk factors for ovarian cancer, true?                 | 21 | Q. And null value would indicate no                    |
| 22 | A. No, I have not.                                     | 22 | association between the exposure you're looking at and |
| 23 | Q. You have never attempted to look at a               | 23 | the disease you're looking at, correct?                |
| 24 | patient's risk factors and determine which factor, if  | 24 | A. Yes.  |
| 25 | any, had anything to do with their ovarian cancer,     | 25 | Q. If a study is statistically significant,            |
|    | Page 131   |    | Page 133   |
| 1  | correct?   | 1  | it means that the likelihood of the result is caused   |
| 2  | A. No.   | 2  | by something other than random chance, correct?        |
| 3  | Q. Are you aware of a method published in the          | 3  | MR. FARIES: Objection to form.                         |
| 4  | medical literature for reliably determining the cause  | 4  | THE WITNESS: The statistical significance              |
| 5  | of an individual patient's ovarian cancer?             | 5  | is one tool that we use to evaluate the results        |
| 6  | MR. FARIES: Objection to form.                         | 6  | from a study.  |
| 7  | THE WITNESS: I'm not aware of anything                 | 7  | BY MR. HEGARTY:  |
| 8  | like that.   | 8  | Q. Let me ask it a different way.                      |
| 9  | BY MR. HEGARTY:  | 9  | A. Okay.   |
| 10 | Q. Do you know the names of the plaintiffs in          | 10 | Q. If a study is not statistically                     |
| 11 | this case?   | 11 | significant, it means the result could be due to       |
| 12 | MR. FARIES: Objection to form.                         | 12 | random chance, correct?                                |
| 13 | THE WITNESS: No, I do not.                             | 13 | MR. FARIES: Objection to form.                         |
| 14 | BY MR. HEGARTY:  | 14 | THE WITNESS: Okay. It is if it is not                  |
| 15 | Q. Do you know how many plaintiffs are in              | 15 | statistically significant that and you                 |
| 16 | this case?   | 16 | give a 95 percent confidence interval is               |
| 17 | A. No, I do not.                                       | 17 | reported, that is indicating that if you had           |
| 18 | Q. Do you know anything about them, where              | 18 | taken another sample from the population, this         |
| 19 | they live, where they grew up, their asbestos their    | 19 | is a plausible range of values that would be           |
| 20 | asbestos exposures, their talcum powder product        | 20 | statistically possible if you were able to             |
| 21 | exposure? Do you know any of that information?         | 21 | repeat the study.                                      |
| 22 | A. No, I do not.                                       | 22 | BY MR. HEGARTY:  |
| 23 | Q. Do you have any personal knowledge of any           | 23 | Q. And a confidence interval includes the              |
| 24 | patient who has used talcum powder products and        | 24 | value of one to a 95 percent a 95 percent              |
| 25 | developed ovarian cancer?                              | 25 | confidence interval would mean that the result could   |

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|    | Page 142   |    | Page 144   |
|----|--|----|--|
| 1  | likely to be concerned about the potential effect on   | 1  | same thing?  |
| 2  | that finding by confounders or biases?                 | 2  | A. In a general sense, yes.                          |
| 3  | MR. FARIES: Objection to form.                         | 3  | Q. Do you agree that epidemiologic                   |
| 4  | THE WITNESS: You would be concerned about              | 4  | epidemiology or epidemiologic evidence by itself is  |
| 5  | confounding regardless of the strength of the          | 5  | insufficient to establish causality?                 |
| 6  | association. If it is a relative risk that is          | 6  | MR. FARIES: Objection to form.                       |
| 7  | very large, it would have to be a factor that          | 7  | THE WITNESS: When we again, in                       |
| 8  | was associated with both the exposure, in that         | 8  | epidemiology, we often rely on the Bradford Hill     |
| 9  | case the smoking, and the outcome to a similar         | 9  | criteria. And it's not just the epidemiologic        |
| 10 | degree of strength.                                    | 10 | evidence, but a very important consideration is      |
| 11 | MR. FARIES: Okay. Mark, can you find a                 | 11 | the consideration of a plausible biological          |
| 12 | stopping point here                                    | 12 | mechanism.   |
| 13 | MR. HEGARTY: Yeah.                                     | 13 | BY MR. HEGARTY:                                      |
| 14 | MR. FARIES: shortly?                                   | 14 | Q. And consideration of a plausible biologic         |
| 15 | MR. HEGARTY: Give me about just about                  | 15 | mechanism would take the analysis beyond just        |
| 16 | a few minutes  | 16 | epidemiologic studies, correct?                      |
| 17 | MR. FARIES: Okay.                                      | 17 | A. It would consider data from beyond the            |
| 18 | MR. HEGARTY: and then I'll be done. A                  | 18 | epidemiologic study, yes.                            |
| 19 | few minutes here.                                      | 19 | Q. Do you agree that a risk factor is not            |
| 20 | BY MR. HEGARTY:  | 20 | necessarily a causal factor?                         |
| 21 | Q. Do you agree that the size of an odds               | 21 | MR. FARIES: Objection to form.                       |
| 22 | ratio or relative risk is an important consideration   | 22 | THE WITNESS: I I do agree that there                 |
| 23 | in evaluating the plausibility of a causal             | 23 | are examples of that, yes.                           |
| 24 | relationship between the exposure and the disease?     | 24 | BY MR. HEGARTY:                                      |
| 25 | MR. FARIES: Objection to form.                         | 25 | Q. Have you ever been on a panel for a CDC?          |
|    | Page 143   |    | Page 145   |
| 1  | THE WITNESS: One considers the size of                 | 1  | MR. FARIES: I'm sorry, is this not a good            |
| 2  | the odds ratio, but one would also bear in mind,       | 2  | breaking point now?                                  |
| 3  | and it is pointed out in numerous papers, that         | 3  | MR. HEGARTY: Oh, yeah. No, we can do a               |
| 4  | some associations may be smaller in magnitude          | 4  | breaking point. We can do it now.                    |
| 5  | but still plausible and real.                          | 5  | MR. FARIES: Yeah, let's do it now.                   |
| 6  | BY MR. HEGARTY:  | 6  | (RECESS TAKEN FROM 12:28 P.M. TO 1:30 P.M.)          |
| 7  | Q. When you say it's a consideration, what do          | 7  | BY MR. HEGARTY:                                      |
| 8  | you mean? The size of the relative risk or odds ratio  | 8  | Q. Dr. Moorman, when you do a case-control           |
| 9  | is a consideration in assessing a causal relationship  | 9  | study, you adjust for confounders that are also risk |
| 10 | between the exposure and the disease?                  | 10 | factors that you believe may have an effect on the   |
| 11 | A. Okay. You know, as I have stated earlier,           | 11 | results of the study, correct?                       |
| 12 | the Bradford Hill viewpoints, I don't want to use word | 12 | A. Yes, we consider confounders, yes.                |
| 13 | "criteria" because he doesn't use that, but the        | 13 | Q. Is a confounder the same thing as a risk          |
| 14 | strength of the association is one of the              | 14 | factor?  |
| 15 | considerations that is described there. So it's it     | 15 | MR. FARIES: Objection to form.                       |
| 16 | is taken into account in the total picture.            | 16 | THE WITNESS: A confounder is a factor                |
| 17 | Q. Do you agree that in looking at                     | 17 | that is associated with the outcome and is also      |
| 18 | epidemiologic studies the presence of an association   | 18 | associated with the exposure that you're             |
| 19 | does not establish a causal relationship?              | 19 | interested in. So it should have some it             |
| 20 | MR. FARIES: Objection to form.                         | 20 | should be associated with the outcome.               |
| 21 | THE WITNESS: Okay. That is what we                     | 21 | BY MR. HEGARTY:                                      |
| 22 | always one of the first things we teach                | 22 | Q. Your intent when you do studies is to             |
| 23 | students, that correlation is not causation.           | 23 | adjust for all risk factors that are could be        |
| 24 | BY MR. HEGARTY:  | 24 | associated with the outcome, correct?                |
| 25 | Q. And is correlation and association the              | 25 | MR. FARIES: Objection to form.                       |

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|          | Page 146  |          | Page 148  |
|----------|---|----------|---|
| 1        | THE WITNESS: I do want to make that a   | 1        | results section. Do you see that?   |
| 2        | little bit more nuanced. We our objective is                                    | 2        | A. Yes.   |
| 3        | to consider them. Sometimes when you do the                                     | 3        | Q. The first line there says: (Reading)   |
| 4        | analysis you might do it in an iterative process                                | 4        | As expected, established  |
| 5        | and so you might consider a factor as a   | 5        | ovarian cancer risk factors differ  |
| 6        | potential confounder. If it does not change the                                 | 6        | between cases and controls.   |
| 7        | overall association, you may not necessarily                                    | 7        | You cite the Table 1, correct?  |
| 8        | keep that in your final statistical model.                                      | 8        | A. Yes.   |
| 9        | BY MR. HEGARTY:   | 9        | Q. You did not include in Table 1 body powder   |
| 10       | Q. But you agree that in papers where you                                       | 10       | exposure as an established ovarian cancer risk factor,  |
| 11       | have been an author and looking at at risk factors                              | 11       | correct?  |
| 12       | for ovarian cancer that you have not included as a                              | 12       | A. No, Dr. Terry did not include that in this   |
| 13       | confounder body powder use, correct?  | 13       | table.  |
| 14       | MR. FARIES: Objection to form.  | 14       | Q. You did not recommend that she include   |
| 15       | THE WITNESS: I don't believe that is an   | 15       | that in this table either, did you?   |
| 16       | absolute accurate statement. I think that we                                    | 16       | MR. FARIES: Objection to form.  |
| 17       | may have considered it. As I said, it may not                                   | 17       | THE WITNESS: No, I did not make that  |
| 18       | have if we put it into a model and it made no                                   | 18       | recommendation.   |
| 19       | difference, then there would be no need to                                      | 19       | BY MR. HEGARTY:   |
| 20       | adjust for it.  | 20<br>21 | Q. That's all I have as to that study.  |
| 21<br>22 | BY MR. HEGARTY:   | 21       | MR. KLATT: I'm sorry, what was that   |
|          | Q. Did the paper reflect whether you  | 23       | exhibit?  |
| 23       | considered it, that is body powder use as a risk                                | 23<br>24 | MR. HEGARTY: 8.   |
| 24<br>25 | factor, and decided not to adjust for it?  A. It I can't say that with absolute | 25       | MS. PARFITT: 8. MR. FARIES: You write that on there?  |
| 2,5      | ·   |          |   |
|          | Page 147  |          | Page 149  |
| 1        | certainty. It is typical to describe the factors that                           | 1        | MR. KLATT: Do you want me to? On the  |
| 2        | you considered as risk factors.   | 2        | article?  |
| 3        | Q. I'm going to hand you what I marked as                                       | 3        | MR. HEGARTY: Yeah, on the article itself.   |
| 4        | Exhibit Number 8.   | 4        | (EXHIBIT NUMBER 9 WAS MARKED FOR IDENTIFICATION   |
| 5        | A. Okay.  | 5        | BY MR. HEGARTY:   |
| 6        | (EXHIBIT NUMBER 8 WAS MARKED FOR IDENTIFICATION                                 |          | Q. I'm going to show you what I've marked as  |
| 7        | MR. FARIES: Thank you.  | 7        | Exhibit 9. This is another paper in which you were an   |
| 8        | BY MR. HEGARTY:   | 8        | author on, correct?   |
| 9        | Q. This is a paper in which you were a  | 9        | A. Yes.   |
| 10       | coauthor on entitled, Supplemental Selenium May                                 | 10       | Q. That paper is entitled, Analgesic  |
| 11       | Decrease Ovarian Cancer Risk in African-American                                | 11       | Medication Use and Risk of Epithelial Ovarian Cancer  |
| 12       | Women. Is that correct?   | 12       | in African-American Women. Correct?   |
| 13       | A. Yes.   | 13       | A. Yes.   |
| 14       | Q. This was published well, it says at the                                      | 14       | Q. If you look over on page 823, Tables 2   |
| 15       | bottom: (Reading)   | 15       | and 3 and even Table 1 did not include body powder or   |
| 16       | Manuscript received   | 16       | talcum powder use as a confounder that was adjusted   |
| 17       | October 20, 2016; initial review  | 17       | for, correct?   |
| 18       | completed November 23rd, 2016;  | 18<br>19 | (WITNESS REVIEWS DOCUMENT)  |
| 19       | revisions accepted January 17th, 2017.  | 20       | A. That is correct.   |
| 20       | Correct?  | 21       | Q. Did you recommend to the author, Lauren  |
| 21<br>22 | A. That is correct.   | 22       | Peres, that they include talcum powder use or body<br>powder use as a potential confounder to consider in |
| 23       | Q. Then it notes it was first published online on February 15, 2017, correct?   | 23       | this this analysis?   |
| 24       | A. Correct.   | 24       | A. I do not recall that I did that, no.   |
| 25       | Q. If you turn over to page 2 under the   | 25       | Q. And why would you not have made that   |
| 4.5      | Q. If you turn over to page 2 under the   | ر ک      | Q. This wife would you not have made that   |

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|    | Page 150  |    | Page 152   |
|----|---|----|--|
| 1  | recommendation?                                       | 1  | MR. FARIES: Thank you.                               |
| 2  | A. I don't know exactly what my thought               | 2  | BY MR. HEGARTY:                                      |
| 3  | process would have been. In this paper, Dr. Peres is  | 3  | Q. This is another paper in which you are an         |
| 4  | a post-doc under the direction of Dr. Schildkraut and | 4  | author, correct?                                     |
| 5  | many times in this situation, the coauthors are not   | 5  | A. That is correct.                                  |
| 6  | involved in every decision along the way and so I     | 6  | Q. This is a paper whose lead author is              |
| 7  | don't know the entire thought process that they went  | 7  | Bo Qin; is that correct?                             |
| 8  | through when they decided which factors they were     | 8  | A. Yes.  |
| 9  | going to use including their statistical model.       | 9  | MR. KLATT: Mark, do you mind reading the             |
| 10 | Q. Well, when you say "they," you're one of           | 10 | title?   |
| 11 | the listed authors, right?                            | 11 | MR. HEGARTY: Yeah, just a second.                    |
| 12 | A. I am one of the listed authors, yes.               | 12 | BY MR. HEGARTY:                                      |
| 13 | Q. You read that paper and signed off on it           | 13 | Q. The title of that paper is, Dietary               |
| 14 | before it was published, correct?                     | 14 | Quality and Ovarian Cancer Risk in African-American  |
| 15 | A. Yes.   | 15 | Women, correct?                                      |
| 16 | Q. You had the ability in that paper and in           | 16 | A. That is correct.                                  |
| 17 | the paper we just looked at, Exhibit Number 8, to     | 17 | Q. If you turn over to first of all, if              |
| 18 | recommend adjustment for other risk factors, correct? | 18 | you look at this paper, first page it said it was    |
| 19 | MR. FARIES: Objection to form.                        | 19 | accepted for publication on June 8th, 2016, correct? |
| 20 | THE WITNESS: That is correct.                         | 20 |  |
|    |   | 21 | A. Yes. Q. If you turn over to page 1282 under the   |
| 21 | BY MR. HEGARTY:                                       | 22 | , ,  |
| 22 | Q. You did not do so as it relates to body            |    | section, Statistical Analysis. Do you see that       |
| 23 | powder or talcum powder use, correct?                 | 23 | section?   |
| 24 | A. No, I did not.                                     | 24 | A. Yes, I do.  |
| 25 | Q. This these papers use the same study               | 25 | Q. Towards the bottom of the second full             |
|    | Page 151  |    | Page 153   |
| 1  | population that you have been working from, the North | 1  | paragraph it notes that: (Reading)                   |
| 2  | Carolina and/or the African-American study, in which  | 2  | The multi-variant adjusted                           |
| 3  | you do have information as far as body powder use,    | 3  | model further considered a priority                  |
| 4  | correct, right?                                       | 4  | the potential confounders or risk                    |
| 5  | MR. FARIES: Objection to form.                        | 5  | factors for ovarian cancer of                        |
| 6  | THE WITNESS: Yes.                                     | 6  | And then it lists a number of risk                   |
| 7  | BY MR. HEGARTY:                                       | 7  | factors, correct?                                    |
| 8  | Q. And you stand behind every word that's             | 8  | A. Correct.  |
| 9  | published in these papers, correct, as an author?     | 9  | Q. And body powder use is not listed,                |
| 10 | MR. FARIES: Objection to form.                        | 10 | correct?   |
| 11 | THE WITNESS: I stand behind these papers              | 11 | A. Correct.  |
| 12 | in the in the way that authors stand behind           | 12 | Q. This paper also did not adjust for body           |
| 13 | them. It's I did not write every word. In             | 13 | powder/talcum powder use, correct?                   |
| 14 | fact, I did not write these papers, and I felt        | 14 |  |
| 15 | like overall they were appropriate. The data          |    |  |
| 16 |   | 15 | Q. You, likewise, had the opportunity to make        |
|    | was I didn't have objections to how the               | 16 | that recommendation if you thought that was          |
| 17 | the data were presented.                              | 17 | appropriate to do so, right?                         |
| 18 | BY MR. HEGARTY:                                       | 18 | A. Yes.  |
| 19 | Q. And all the authors, the lead authors, are         | 19 | Q. And you felt that the paper as presented          |
| 20 | certainly competent and respectable scientists,       | 20 | was appropriate, correct?                            |
| 21 | correct?  | 21 | MR. FARIES: Objection to form.                       |
| 22 | A. Yes.   | 22 | THE WITNESS: Yes.                                    |
| 23 | Q. I'm going to show you what I next marked           | 23 | BY MR. HEGARTY:                                      |
| 24 | as Exhibit Number 10.                                 | 24 | Q. Next paper I'm going to show you is one I         |
| 25 | (EXHIBIT NUMBER 10 WAS MARKED FOR IDENTIFICATION)     | 25 | marked as Exhibit Number 11.                         |

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|    | Page 154   |          | Page 156   |
|----|--|----------|--|
| 1  | (EXHIBIT NUMBER 11 WAS MARKED FOR IDENTIFICATION)      | 1        | _  |
| 2  | BY MR. HEGARTY:  | 2        | BY MR. HEGARTY: Q. Well, my question is a little bit   |
| 3  | Q. This is a paper entitled, Socioeconomic             | 3        | different.   |
| 4  | Status in Relation to the Risk of Ovarian Cancer in    | 4        | A. Yes, sir.   |
| 5  | African-American Women: A Population-Based             | 5        | Q. Isn't it correct, though, that if you had           |
| 6  | Case-Control Study. Correct?                           | <u>6</u> | believed at the time these papers were published that  |
| 7  | A. Correct.  | 7        | body powder or talcum powder exposure was an           |
| 8  | Q. You're also an author on this study; is             | 8        | established risk factor for ovarian cancer that you    |
| 9  | that right?  | 9        | would have recommended to your fellow authors that     |
| 10 | A. Correct.  | 10       | they adjust for it in the papers?                      |
| 11 | Q. If you look in the abstract, about middle           | 11       | MR. FARIES: Objection to form.                         |
| 12 | of the abstract paragraph, it says: (Reading)          | 12       | THE WITNESS: I think it would be fair to               |
| 13 | After adjustment for a                                 | 13       | say that it should be considered, yes.                 |
| 14 | established ovarian cancer risk                        | 14       | BY MR. HEGARTY:  |
| 15 | factors.   | 15       | Q. Well, is it fair to say, though, in answer          |
| 16 | Do you see that?                                       | 16       | to my question, that if you believed it would have     |
| 17 | A. I do.   | 17       | been it was an established risk factor at the time     |
| 18 | Q. What that means is that this paper                  | 18       | these papers were published that you would have made   |
| 19 | adjusted for established ovarian cancer risk factors,  | 19       | such a recommendation to your coauthors?               |
| 20 | correct?   | 20       | MR. FARIES: Objection to form.                         |
| 21 | MR. FARIES: Objection to form.                         | 21       | THE WITNESS: I'm I'm not really I'm                    |
| 22 | THE WITNESS: That's what they state.                   | 22       | not really sure. It's as I said many times,            |
| 23 | BY MR. HEGARTY:  | 23       | when we are working in these large groups,             |
| 24 | Q. In fact, that's what you state?                     | 24       | you you may provide input. It I might                  |
| 25 | A. Yes.  | 25       | have been operating on the assumption that they        |
|    | Page 155   |          | Page 157   |
| 1  | Q. Nowhere in this paper did you as an author          | 1        | had looked at it and perhaps it was not a risk         |
| 2  | or the other authors adjust for body powder or talcum  | 2        | factor, but I just don't know exactly what my          |
| 3  | powder exposure, correct?                              | 3        | frame of mind was at that point.                       |
| 4  | A. That is correct.                                    | 4        | BY MR. HEGARTY:  |
| 5  | Q. So you would have to agree that as of the           | 5        | Q. Well, you know better than anyone yourself          |
| 6  | date this paper was published you did not believe that | 6        | and how you would approach being an author on a paper, |
| 7  | body powder exposure or talcum powder exposure was an  | 7        | correct?   |
| 8  | established ovarian cancer risk factor?                | 8        | A. Correct.  |
| 9  | MR. FARIES: Objection to form.                         | 9        | Q. Is it your testimony that if you had                |
| 10 | THE WITNESS: As I have stated before, I'm              | 10       | believed that ovarian that body powder or talcum       |
| 11 | not sure. It's very hard to pinpoint at a              | 11       | powder use was an established risk factor that you     |
| 12 | particular date what my opinion what my                | 12       | would not have passed that information along to your   |
| 13 | opinion was.   | 13       | coauthors?   |
| 14 | BY MR. HEGARTY:  | 14       | MR. FARIES: Objection to form and                      |
| 15 | Q. Well, wouldn't it be a fair statement that          | 15       | mischaracterizes the witness' prior testimony.         |
| 16 | as of the date of all these four papers we just looked | 16       | BY MR. HEGARTY:  |
| 17 | at, if you had believed that ovarian that body         | 17       | Q. You can answer.                                     |
| 18 | powder or talcum powder use was an established ovarian | 18       | A. I'm I I think that I was probably                   |
| 19 | cancer risk factor, you would have recommended that    | 19       | relying on my coauthors and I did not make that        |
| 20 | the you and the other authors adjust for it in the     | 20       | recommendation. That's all I can say.                  |
| 21 | study findings, correct?                               | 21       | Q. Well, are you testifying here today that            |
| 22 | MR. FARIES: Objection to form.                         | 22       | at the time these papers were published you did        |
| 23 | THE WITNESS: I I did not make that                     | 23       | believe that body powder or talcum powder use was an   |
| 24 | recommendation.  | 24       | established ovarian cancer risk factor?                |
| 25 |  | 25       | MR. FARIES: Objection to form.                         |

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|    | Page 158  |          | Page 160  |
|----|---|----------|---|
| 1  | THE WITNESS: My testimony is that I have  | 1        | A. That is correct.   |
| 2  | believed for quite some time that talcum powder   | 2        | Q. Is it correct that this first this                               |
| 3  | use is a risk factor for ovarian cancer.  | 3        | this paper, Exhibit 12, is the first time you ever                  |
| 4  | BY MR. HEGARTY:   | 4        | reported in the study in which you were on a relative               |
| 5  | Q. Understood, but I'm talking about at the   | 5        | risk or odds ratio for body powder or talcum powder                 |
| 6  | date these papers were published. Is it your  | 6        | use in ovarian cancer?  |
| 7  | testimony that at the date these papers were published  | 7        | A. To the best of my knowledge yes.                                 |
| 8  | that you believed that body powder or talcum powder   | 8        | Q. This is a paper in which you are the lead                        |
| 9  | use was an established risk factor for ovarian cancer?  | 9        | author, correct?  |
| 10 | MR. FARIES: Objection to form.  | 10       | A. That is correct.   |
| 11 | THE WITNESS: I would say yes, I did   | 11       | Q. That means you are responsible for                               |
| 12 | believe it at that point.   | 12       | everything in this paper, right?                                    |
| 13 | BY MR. HEGARTY:   | 13       | MR. FARIES: Objection to form.                                      |
| 14 | Q. And that goes back to even the paper that  | 14       | THE WITNESS: I wrote this paper, yes.                               |
| 15 | was published in 2015?  | 15       | BY MR. HEGARTY:   |
| 16 | A. As I have stated before, I have held this  | 16       | Q. And you stand behind the results of this                         |
| 17 | position for a while. I don't know exactly at what  | 17       | paper, correct?   |
| 18 | what point I would have said I held it or did not hold  | 18       | A. I do.  |
| 19 | it.   | 19       | Q. And in this paper you found no association                       |
| 20 | Q. And it's your testimony that you   | 20       | between talcum powder use and ovarian cancer in either              |
| 21 | despite you holding that belief, you didn't pass that   | 21       | of African-American or white women, correct?                        |
| 22 | belief on to your coauthors; is that correct?   | 22       | MR. FARIES: Objection to form.                                      |
| 23 | MR. FARIES: Objection. Sorry. Objection   | 23       | THE WITNESS: In this paper there was not                            |
| 24 | to form, asked and answered multiple times.   | 24       | a statistically significant association, that is                    |
| 25 |   | 25       | true.   |
|    | Page 159  |          | Page 161  |
| 1  | BY MR. HEGARTY:   | 1        | BY MR. HEGARTY:   |
| 2  | Q. You can answer.  | 2        | Q. Well, with regard to white women, the odds                       |
| 3  | A. Okay.  | 3        | ratio you reported is 1.04, correct?                                |
| 4  | MR. FARIES: And let this be the last time   | 4        | A. That is correct.   |
| 5  | that you ask this question, please.   | 5        | Q. That is essentially null value, right?                           |
| 6  | THE WITNESS: Okay. No, I did not pass   | 6        | MR. FARIES: Sorry, hang on, slow down.                              |
| 7  | that information along to the coauthors.  | 7        | Objection to form.  |
| 8  | BY MR. HEGARTY:   | 8        | MR. HEGARTY: Okay.  |
| 9  | Q. Okay. Now, you in none of the papers   | 9        | MR. FARIES: Now you can proceed.                                    |
| 10 | that we just looked at was there a reporting of a   | 10       | THE WITNESS: Okay. Among the white                                  |
| 11 | relative risk or an odds ratio for talcum or body   | 11       | women, that is correct, the odds ratio was 1.04,                    |
| 12 | powder use in ovarian cancer, correct?  | 12       | which is very close to the null value.                              |
| 13 | A. That is correct.   | 13       | BY MR. HEGARTY:   |
| 14 | Q. But you have been an author on several   | 14       | Q. You also compared the results in whites                          |
| 15 | papers that have reported an odds ratio or relative   | 15       | and African-American women and found no difference                  |
| 16 | risk for use of talcum powder or body powder  | 16       | between the two, correct? You did not find                          |
| 17 | powders and ovarian cancer, correct?  | 17       | heterogeneity, right?   |
| 18 | A. That is correct.   | 18       | A. If you let me just look for a moment to                          |
| 19 | (EXHIBIT NUMBER 12 WAS MARKED FOR IDENTIFICATION)   | 19       | Q. Sure.  |
| 20 | BY MR. HEGARTY:   | 20       | A just recall.  |
| 21 | Q. The first paper, from what I can tell, of  | 21       | MR. FARIES: If you don't feel                                       |
| 22 | your publications that reported an odds ratio or  | 22       | comfortable, always review your paper.                              |
| 22 |   |          |   |
| 23 | relative risk is what I've marked as Exhibit Number 12  | 23       | (WITNESS REVIEWS DOCUMENT)  |
|    | relative risk is what I've marked as Exhibit Number 12<br>which is titled, Ovarian Cancer Risk Factors in | 23<br>24 | (WITNESS REVIEWS DOCUMENT) THE WITNESS: Uh-huh. That is correct, we |

41 (Pages 158 to 161)

| 1 Q. Do you rely on what I've marked as Exhibit 2 Number 13 as part of your reliance materials for your 3 opinions in this case? 4 A. I consider you know, as I said, I 5 considered the full body of literature and so, yes. 6 Q. Within the dataset of the North Carolina 7 Ovarian Cancer Study, are there is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 1 MS. PARFITT: Page 8? 2 MR. HEGARTY: Page 8. 3 BY MR. HEGARTY: 4 Q and you look at the section, Body 5 Powder Use. Do you see that section? 6 A. Yes, I do. 7 Q. First of all, body powder use include 8 of cornstarch products, correct? 9 A. It may. | ge 176     |
|---|------------|
| 2 Number 13 as part of your reliance materials for your 3 opinions in this case? 4 A. I consider you know, as I said, I 5 considered the full body of literature and so, yes. 6 Q. Within the dataset of the North Carolina 7 Ovarian Cancer Study, are there is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 2 MR. HEGARTY: Page 8. 3 BY MR. HEGARTY: 4 Q and you look at the section, Body 5 Powder Use. Do you see that section? 6 A. Yes, I do. 7 Q. First of all, body powder use include 8 of cornstarch products, correct? 9 A. It may.  |            |
| 3 opinions in this case? 4 A. I consider you know, as I said, I 5 considered the full body of literature and so, yes. 6 Q. Within the dataset of the North Carolina 7 Ovarian Cancer Study, are there is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 3 BY MR. HEGARTY: 4 Q and you look at the section, Body 5 Powder Use. Do you see that section? 6 A. Yes, I do. 7 Q. First of all, body powder use include 8 of cornstarch products, correct? 9 A. It may.   |            |
| 4 A. I consider you know, as I said, I 5 considered the full body of literature and so, yes. 6 Q. Within the dataset of the North Carolina 7 Ovarian Cancer Study, are there is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 9 A. It may.   |            |
| 5 considered the full body of literature and so, yes. 6 Q. Within the dataset of the North Carolina 7 Ovarian Cancer Study, are there – is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women?  5 Powder Use. Do you see that section? 6 A. Yes, I do. 7 Q. First of all, body powder use include 8 of cornstarch products, correct? 9 A. It may.  |            |
| 6 Q. Within the dataset of the North Carolina 6 A. Yes, I do. 7 Ovarian Cancer Study, are there – is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 9 A. It may.  |            |
| 7 Ovarian Cancer Study, are there – is that a racially 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 9 A. It may.  |            |
| 8 diverse population; in other words, does it include 9 white women, African-American women, Hispanic women? 9 A. It may.   |            |
| 9 white women, African-American women, Hispanic women? 9 A. It may.   | es use     |
| The Rinay.  |            |
| 10 A 14 ii  |            |
| 10 A. It was is a racially diverse. There 10 Q. It can include deodorizing body pow   | ders,      |
| 11 were no exclusions by race/ethnicity, but it was 11 correct?   |            |
| 12 reflecting the population and the incidence of ovarian 12 A. It it may, yes.   |            |
| 13 cancer, so the vast majority of the or a large 13 Q. Body powder use is not exclusive to   |            |
| 14 majority of the women in the study were white women. 14 powders containing talcum powder for purpo   | ses of the |
| 15 Q. Do you know what percentage? 15 African-American study, correct?  |            |
| 16 A. Off the top of my head, I don't know. I 16 MR. FARIES: Objection to form.   |            |
| would say probably definitely greater than 80 percent. 17 THE WITNESS: That is correct.   |            |
| 18 (EXHIBIT NUMBER 14 WAS MARKED FOR IDENTIFICATION) 18 BY MR. HEGARTY:   |            |
| 19 BY MR. HEGARTY: 19 Q. In fact, some of the women in the  |            |
| Q. Next study I'm going to hand you I've 20 African-American study used only cornstarcl   | products,  |
| 21 marked as Exhibit Number 14. This is a study 21 correct?   | _          |
| entitled, Racial, slash, Ethnic Differences in the 22 MR. FARIES: Objection to form.  |            |
| 23 Epidemiology of Ovarian Cancer: A Pooled Analysis of 23 THE WITNESS: We do not know th   | at. We     |
| 24 12 Case-Control Studies. 24 asked about body powder use, so we did   | not ask    |
| 25 A. Yes. 25 them to distinguish.  |            |
| Page 175  | ge 177     |
| 1 Q. Is that correct? 1 BY MR. HEGARTY:   |            |
| 2 A. That is correct. 2 Q. But you did not limit it to body por   | vder       |
| 3 Q. You are an author on this paper; is that 3 use containing talcum, correct?   |            |
| 4 correct? 4 A. That is correct.  |            |
| 5 A. That is correct. 5 Q. If you look at the column for body   | powder     |
| 6 Q. This paper shows in the upper right-hand 6 use, you found that you found no increas  | e in the   |
| 7 corner that it was published on December 2nd, 2017; E 7 risk of ovarian cancer from any genital use   | in         |
| 8 published ahead of print; is that correct? 8 Hispanic women, correct?   |            |
| 9 A. I'm sorry, where are you? 9 MR. FARIES: Objection to form.   | When       |
| 10 Q. Upper right-hand corner. 10 you're referring to "you," do you mean t  | he         |
| 11 A. I am not seeing that on the document. 11 witness literally or the authors of the stu  | ıdy?       |
| 12 Q. I'm sorry, you may have different copy 12 MR. HEGARTY: Fair point.  | ·          |
| 13 than I have. This is the copy I have. I guess they 13 BY MR. HEGARTY:  |            |
| gave me a different copy. The copy I have shows it 14 Q. Yeah, the when I talk about "you   | ," I'm     |
| was published in December 2nd on December 2nd; E 15 referring to the paper or the authors. Is that  |            |
| published ahead of print. Do you know if that's 16 you understand that?   |            |
| accurate, if whether it was published in December of 17 A. Right. Once again, I want to say the   | ie         |
| 18 2017? 18 found an odds ratio of 1.41. The confidence   |            |
| 19 A. I don't recall the exact date. I know 19 included 1 so, therefore, it was not a statistic   |            |
| 20 that it is a paper that came out fairly recently. 20 significant increased risk.   | ,          |
| Q. Do you agree it came out in the last three 21 Q. You also not find a statistically   |            |
| 22 months, four months?  22 significant increased risk in Asian/Pacific I   | slander    |
| 23 A. That sounds about right.  23 women, correct?  |            |
| 24 Q. If you turn over to page 8 of this 24 A. That is correct.   |            |
| 25 study 25 Q. Is it your opinion that the increased  | l risk     |

45 (Pages 174 to 177)

|                                  | Page 178   |                            | Page 180  |
|----------------------------------|--|----------------------------|---|
| 1                                | of body powder of ovarian cancer with body powder  | 1                          | BY MR. HEGARTY:   |
| 2                                | use does not vary across racial and ethnicity  | 2                          | Q. You also found in this study: (Reading)  |
| 3                                | features?  | 3                          | As reported below, no   |
| 4                                | MR. FARIES: Objection to form.   | 4                          | statistically significant association   |
| 5                                | BY MR. HEGARTY:  | 5                          | between aspirin, acetaminophen, or  |
| 6                                | Q. Let me ask it a different way.  | 6                          | NSAID use and ovarian cancer.   |
| 7                                | A. Yeah, there were a couple of double.  | 7                          | Correct?  |
| 8                                | Q. Do you believe you've offered the   | 8                          | A. Again, all of those associations were not  |
| 9                                | opinions in this case about body powder use in ovarian   | 9                          | statistically significant.  |
| 10                               | cancer. Do you is it your opinion that those apply   | 10                         | Q. If turn over to page 9, top of the second  |
| 11                               | regardless of racial or ethnicity characteristics?   | 11                         | column you say: (Reading)   |
| 12                               | MR. FARIES: Objection to form.   | 12                         | Study heterogeneity was   |
| 13                               | THE WITNESS: Okay. I based my opinion on   | 13                         | present for several characteristics   |
| 14                               | the overall body of literature, and as all of us   | 14                         | which include body powder exposure.   |
| 15                               | are well aware, the body of literature is  | 15                         | Correct?  |
| 16                               | predominantly white populations. And as we can   | 16                         |   |
| 17                               | see here, the number of Hispanic women is a  | 17                         | A. Let me just yes, that is what it states.   |
| 18                               | small fraction of the number of non-Hispanic   | 18                         | Q. That means that you found differences in   |
| 19                               | whites and the same is true but to a lesser  | 19                         | the odds ratios across the various racial groups,   |
| 20                               | extent for black women and Asian and Pacific   | 20                         | correct?  |
| 21                               | Islanders. And again, my opinion was based on  | 21                         | A. Yes, that is would be yes.   |
| 22                               | the overall body of literature. This one   | 22                         | Q. And if you look down at the bottom of that   |
| 23                               | publication suggests that the strength of the  | 23                         | column, the last paragraph says: (Reading)  |
| 24                               | association may vary somewhat across race/ethnic   | 24                         | For a model of established EOC  |
| 25                               | groups, but again, that is for race/ethnic   | 25                         | epithelial ovarian cancer risk  |
|                                  |  | 2.5                        | -   |
|                                  | Page 179   |                            | Page 181  |
| 1                                | groups other than non-Hispanic whites. We are  | 1                          | factors.  |
| 2                                | somewhat more limited in the numbers.  | 2                          | Then you list several of those risk   |
| 3                                | BY MR. HEGARTY:  | 3                          | factors in the then you list the risk factors in  |
| 4                                | Q. You found in you or the paper or the  | 4                          | the parenthetical. Then you state: (Reading)  |
| 5                                | studies found in this analysis that there was no   | 5                          | The average ORs among the   |
| 6                                | statistically significant association between  | 6                          | controls was estimated by race  |
| 7                                | nongenital use of body powder and ovarian cancer in  | 7                          | ethnicity.  |
| 8                                | any racial group, correct?   | 8                          | Correct?  |
| 9                                | A. As reported here, so in non-Hispanic  | 9                          | A. That's what is stated, yes.  |
| 10                               | white, the odds ratio 1, that is an accurate   | 10                         | Q. In this paper you did not include as an  |
| 11                               | statement. For the Hispanic woman, it is 1.55 is   | 11                         | established epithelial ovarian cancer risk factor body  |
| 12                               | the odds ratio. The lower bound of the confidence  | 12                         | powder use, correct?  |
| 13                               | interval is right at 1 so that would typically   | 13                         | MR. FARIES: Objection to form. And just,  |
| 14                               | translate to a p-value of right at .05, and so at  | 14                         | once again, the "you" is the authors, the   |
| 15                               | least in that group there is some indication of  | 15                         | collective publication.   |
| 16                               | increased risk.  | 16                         | MR. HEGARTY: That includes her.   |
| 17                               | Q. But in that group, the real odds ratio  | 17                         | MR. FARIES: Yes, she's one of authors.  THE WITNESS: Okay. Yes, the talc was  |
|                                  |  |                            | THE WITNESS: Okay Vec the tale was  |
| 18                               | could be 1.00, correct?  | 18                         |   |
| 18<br>19                         | could be 1.00, correct?  MR. FARIES: Objection to form.  | 19                         | not included in this model.   |
| 18<br>19<br>20                   | could be 1.00, correct?  MR. FARIES: Objection to form.  THE WITNESS: We've talked about the   | 19<br>20                   | not included in this model.  BY MR. HEGARTY:  |
| 18<br>19<br>20<br>21             | could be 1.00, correct?  MR. FARIES: Objection to form.  THE WITNESS: We've talked about the interpretation of the odds ratio repeatedly.  | 19<br>20<br>21             | not included in this model.  BY MR. HEGARTY:  Q. Did you recommend to your fellow authors   |
| 18<br>19<br>20<br>21<br>22       | could be 1.00, correct?  MR. FARIES: Objection to form.  THE WITNESS: We've talked about the interpretation of the odds ratio repeatedly.  This is the range of values with which it is  | 19<br>20<br>21<br>22       | not included in this model.  BY MR. HEGARTY:  Q. Did you recommend to your fellow authors that talcum powder or I'm sorry, that body powder   |
| 18<br>19<br>20<br>21<br>22<br>23 | could be 1.00, correct?  MR. FARIES: Objection to form.  THE WITNESS: We've talked about the interpretation of the odds ratio repeatedly.  This is the range of values with which it is statistically compatible. The lower bound of | 19<br>20<br>21<br>22<br>23 | not included in this model.  BY MR. HEGARTY:  Q. Did you recommend to your fellow authors that talcum powder or I'm sorry, that body powder use should be included in the list of established |
| 18<br>19<br>20<br>21<br>22       | could be 1.00, correct?  MR. FARIES: Objection to form.  THE WITNESS: We've talked about the interpretation of the odds ratio repeatedly.  This is the range of values with which it is  | 19<br>20<br>21<br>22       | not included in this model.  BY MR. HEGARTY:  Q. Did you recommend to your fellow authors that talcum powder or I'm sorry, that body powder   |

46 (Pages 178 to 181)

| Page 182  Q. And that's what this line says when strike that.  When you put the parenthetical when the authors put the parenthetical after established copitheful ovarian cancer risk factors, you intended to identify in that parenthetical those the authors concluded were established risk factors, correct?  MR. FARIES: Objection to form. THE WITNESS: That is a list of them the factors that they did include in the model, yes.  BY MR. HEGARTY:  Q. Well, that they included this statistical analysis, that is what they included in that model as and they considered the established risk factors.  Q. I'm sorry.  A. Yes. Q. O, And then if you turn over to the next page, page 10, the very bottom to the right-hand column, the authors write: (Reading) A concern with self-reported  Page 183  A data is recall bias especially for characteristics that are difficult to report with accuracy. Required subjective summarization or can be influenced by the investigators, media, or similar factors. Such problematic characteristics may include body powder exposure, analgesic medication use, breastfeeding, and possibly family history.  A You did read that correctly. Q. What the authors are stating there is that the results reported could be inaccurate because of it relates to body powder use, correct?  B MR. FARIES: Objection to form. THE WITNESS: Please state  B MR. FARIES: Objection to form. THE WITNESS: Please state  B WR. HEGARTY:  THE WITNESS: These two selences are definitely raising that as a concern about factors like this. They outline some of the factors like this. They outline some of the subjective summarization or the intence by the factors like this. They outline some of the subjective summarization or the intence by the investigator, media, or similar factors, correct, as it relates to body powder use, correct?  A You did read that correctly.  B MR. FARIES: Objection to form.  He WITNESS: Please state  B MR. HEGARTY:  C. And the intents as a concern about factors like litine, this tas as concern abo                         | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13 | Q. And that's what this line says when strike that. When you put the parenthetical when the authors put the parenthetical after established epithelial ovarian cancer risk factors, you intended to identify in that parenthetical those the authors concluded were established risk factors, correct? MR. FARIES: Objection to form. THE WITNESS: That is a list of them the factors that they did include in the model, yes.  BY MR. HEGARTY: Q. Well, that they included A. And they | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | MR. FARIES: Objection to form.  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this these exposures.  BY MR. HEGARTY:  Q. And you stand behind the results of this study too, correct?  A. Yes, I do.  Q. Now, at the time this study was published, |
|--|--|---|--|---|
| when – strike that.  When you put the parenthetical – when the authors put the parenthetical after established epithelial ovarian cancer risk factors, you intended to identify in that parenthetical those the authors occurred were established risk factors, correct?  MR. FARIES: Objection to form. THE WITNESS: That is a so concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  A. And they –  D. Well, that they include –  A. A. And they –  A. A. And they –  A. A. And they –  A. A. That they – the investigators that did this statistical analysis, that is what they included in that model as – and they considered the established risk factors.  Q. And the investigators included you?  A. Yes.  Q. And the investigators included you?  A. Yes.  A. Cart's see, Thu trying to – this – yes, I.— I think that I must have been.  Q. Did you have to fill out a conflict of interest disclosure as part of this paper?  A. Host journals do.  Q. Well, as a matter of course, you have to fill out one, correct?  A. Most journals do.  Q. Are you ever published in – in any journal standard the authors in the last few years to provide a conflict of interest.  Page 183  A can's the time this study was published, you have to fill out one, correct?  A. Let's see, Tm trying to – this – yes, I.— I think that I must have been.  Q. Well, as a matter of course, you have to fill out one, correct?  A. Most journals do.  Q. Are you ever published in – in any journals and in the last few years to provide a conflict of inte | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13 | when strike that.  When you put the parenthetical when the authors put the parenthetical after established epithelial ovarian cancer risk factors, you intended to identify in that parenthetical those the authors concluded were established risk factors, correct?  MR. FARIES: Objection to form.  THE WITNESS: That is a list of them the factors that they did include in the model, yes.  BY MR. HEGARTY:  Q. Well, that they included A. And they                               | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this these exposures.  BY MR. HEGARTY:  Q. And you stand behind the results of this study too, correct?  A. Yes, I do.  Q. Now, at the time this study was published,                                 |
| when – strike that.  When you put the parenthetical — when the authors put the parenthetical after established epithelial ovarian cancer risk factors, you intended to identify in that parenthetical hose the authors concluded were established risk factors, correct?  MR. FARIES: Objection to form. THE WITNESS: That is a soncern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  A. And they —  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this – these exposures.  BYMR. HEGARTY:  A. And they —  THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this accurately report the accurate all sectors like this. They outline some of the concerns about how difficult it is to accurately report the accurately report the accurate all sectors like this. They outline some of the concerns about how difficult it is to accurately report the accurately factors.  A. And they —  THE WITNESS: These wobstace of subjection to form.  The with they include —  THE WITNESS: These wobstace of subjection to form.  The with the product of this study too, correct?  A. Yes, Ido.  Q. Now, at the time this study was published, on this litigation, correct?  A. Let's see, Tm trying to — this – yes, IL-1 think that I must have been.  Q. Well, as a matter of course, ou | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13      | when strike that.  When you put the parenthetical when the authors put the parenthetical after established epithelial ovarian cancer risk factors, you intended to identify in that parenthetical those the authors concluded were established risk factors, correct?  MR. FARIES: Objection to form.  THE WITNESS: That is a list of them the factors that they did include in the model, yes.  BY MR. HEGARTY:  Q. Well, that they included A. And they                               | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11 | THE WITNESS: These two sentences are definitely raising that as a concern about factors like this. They outline some of the concerns about how difficult it is to accurately report this these exposures.  BY MR. HEGARTY:  Q. And you stand behind the results of this study too, correct?  A. Yes, I do.  Q. Now, at the time this study was published,                                 |
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| 19 established risk factors.   20   Q. And the investigators included you?   21   A. Yes.   Q. And then if you turn over to the next   22   fill out one, correct?   A. Most journals do.   Q. Are you ever published in in any journal that has not required the authors in the last few years to provide a conflict of interest   Page 183   Page 185  |  |   |  |   |
| Q. And the investigators included you?  A. Yes.  Q. And then if you turn over to the next page, page 10, the very bottom to the right-hand column, the authors write: (Reading) A concern with self-reported  Page 183  Page 185  A concern with self-reported  Page 186  Page 187  A concern with self-reported  Page 188  Page 188  Page 188  Page 188  Page 188  Page 189  A lican't think of one right offhand. I just  Q. This was published in the International Journal of Epidemiology, correct?  A yes.  Q. This was published in the International Journal of Epidemiology, correct?  A yes.  Q. That journal requires the authors to identify any potential conflicts of interest, correct?  MR. FARIES: Objection to form.  THE WITNESS: Please state  Q. Did you disclose to the Journal at the time this was published that you were a paid Plaintiffs' expert in litigation involving talcum powder or body powder use in ovarian cancer?  A. I did not.  |  | ·   |  |   |
| A. Yes.  Q. And then if you turn over to the next page, page 10, the very bottom to the right-hand column, the authors write: (Reading)  A concern with self-reported  Page 183  Page 185  A concern with self-reported  Page 186  Page 187  A concern with self-reported  Page 188  Page 189  A I can't think of one right offhand. I just  A Yes.  Q. This was published in the International just  A Yes.  Q. That journal requires the authors to identify any potential conflicts of interest, correct?  MR. FARIES: Objection to form.  The WITNESS: Objection to form.  Page 188  Page 188  Page 188  Page 189  A. I can't think of one right offhand. I just  A. Yes.  Q. This was published in the International just  A. Yes.  Q. This yournal requires the authors to identify any potential conflicts of interest, correct?  MR. FARIES: Objection to form.  The WITNESS: Objection to form.  Page 188  A. Obtinume few yournal and I - I just don't specifically recall the conflict of inter                 |  |   |  | = =   |
| Q. And then if you turn over to the next page, page 10, the very bottom to the right-hand column, the authors write: (Reading)  A concern with self-reported  Page 183  Page 185  data is recall bias especially for characteristics that are difficult to 3 report with accuracy. Required 4 subjective summarization or can be 5 influenced by the investigator, media, 6 or similar factors. Such problematic 7 characteristics may include body 8 powder exposure, analgesic medication use, breastfeeding, and possibly 10 family history.  Did I read that correctly? 11 Did I read that correctly. Q. What the authors are stating there is that 14 the results reported could be inaccurate because of 5 subjective summarization or the influence by the investigator, media, or similar factors, correct, as 17 it relates to body powder use, correct? 18 MR. FARIES: Objection to form. 18 MR. FARIES: Objection to form. 19 THE WITNESS: Please state  A. Most journals do. Q. Are you ever published in in any journal that has not required the authors in the last few years to provide a conflict of interest few years to provide a confli       |  |   |  |   |
| page, page 10, the very bottom to the right-hand column, the authors write: (Reading) A concern with self-reported  Page 183  A concern with self-reported  Page 185  A concern with self-reported  Page 187  A concern with self-reported  Page 188  Page 189  A. I can't think of one right offhand. I just  A. I can't think of one right offhand. I just  A. Yes.  Characteristics may include body include body one spowder exposure, analgesic medication use, breastfeeding, and possibly powder exposure, analgesic medication of family history.  Did I read that correctly.  A. You did read that correctly.  Q. What the authors are stating there is that the results reported could be inaccurate because of the investigator, media, or similar factors, correct, as it relates to body powder use, correct?  MR. FARIES: Objection to form.  Page 183  Page 185  A. I can't think of one right offhand. I just  Q. This was published in the International Journal of Epidemiology, correct?  A. Yes.  Q. That journal requires the authors to identify any potential conflicts of interest, correct?  MR. FARIES: Objection to form.  THE WITNESS: Once again, I publish in — we publish in many journals and I — I just don't specifically recall the conflict of interest form for this one.  BY MR. HEGARTY:  Q. Did you disclose to the Journal at the time this was published that you were a paid Plaintiffs' expert in litigation involving talcum powder or body powder use in ovarian cancer?  THE WITNESS: Please state —  |  |   |  |   |
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| 9 use, breastfeeding, and possibly 10 family history. 11 Did I read that correctly? 12 A. You did read that correctly. 13 Q. What the authors are stating there is that 14 the results reported could be inaccurate because of 15 subjective summarization or the influence by the 16 investigator, media, or similar factors, correct, as 17 it relates to body powder use, correct? 18 MR. FARIES: Objection to form. 19 THE WITNESS: Once again, I publish in 10 THE WITNESS: Once again, I publish in 11 we publish in many journals and I I just 12 don't specifically recall the conflict of 13 interest form for this one. 14 BY MR. HEGARTY: 15 Q. Did you disclose to the Journal at the 16 time this was published that you were a paid 17 Plaintiffs' expert in litigation involving talcum 18 powder or body powder use in ovarian cancer? 19 A. I did not.  |  | , ,   |  |   |
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| 19 THE WITNESS: Please state 19 A. I did not.  |  | * *   |  | 1 0   |
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| 2. Don't for concreting that it dution reading   |  |   |  |   |
|  |  |   |  | this paper with your name on it should know whether   |
| 22 A the question. 22 you're a paid Plaintiffs' expert who's going to  |  | `   |  | * * ·   |
| 23 Q those two sentences state is that 23 testify in litigation that body powder use or talcum   |  | *   |  |   |
| 24 recall bias could influence the results as it relates 24 powder use causes ovarian cancer?  |  | =   |  |   |
| *  | 25   |   | 25   | <del>-</del>  |

|  | - 000   |  | - 004   |
|--|---|--|---|
|  | Page 202  |  | Page 204  |
| 1  | agree that it would be impossible to do a case control  | 1  | correct? Under duration of use?   |
| 2  | study that would report accurate results?   | 2  | MR. FARIES: I'm sorry, objection to the   |
| 3  | MR. FARIES: Objection to form.  | 3  | form of the question.   |
| 4  | THE WITNESS: I could not state what   | 4  | THE WITNESS: And the test for trend for   |
| 5  | level, what degree, what that would be to say   | 5  | duration of use was not statistically   |
| 6  | that we could not do a case-control study.  | 6  | significant for the nongenital use. Yes, that   |
| 7  | BY MR. HEGARTY:   | 7  | is correct.   |
| 8  | Q. You do agree it would be a significant   | 8  | BY MR. HEGARTY:   |
| 9  | concern in such an environment?   | 9  | Q. With regard to the any genital use by  |
| 10   | MR. FARIES: Objection to form.  | 10   | number of applications, you use the levels of less  |
| 11   | THE WITNESS: Anytime we do a case-control   | 11   | than 3600 and greater than 3600. How did those how  |
| 12   | study we consider recall bias as a concern.   | 12   | were those levels chosen?   |
| 13   | BY MR. HEGARTY:   | 13   | A. That was the median number of  |
| 14   | Q. But you would consider a concern publicity   | 14   | applications. That was the cut point used.  |
| 15   | or awareness of your study group between an exposure  | 15   | Q. Is it correct that you did not or  |
| 16   | and a disease you're looking at, correct?   | 16   | strike that.  |
| 17   | A. Yes, we would, which would play into   | 17   | Did you find any dose response for only   |
| 18   | recall bias, why might women recall differently.  | 18   | nongenital use in ovarian cancer?   |
| 19   | Q. As you said, recall bias could explain the   | 19   | A. We did not find a significant trend with   |
| 20   | difference between the number of cases who reported   | 20   | either duration of use nor with number of applications  |
| 21   | body powder use before 2014 and the number that   | 21   | for nongenital use.   |
| 22   | reported afterwards, after 2014?  | 22   | Q. You also found no increase in risk of  |
| 23   | MR. FARIES: Objection to form.  | 23   | ovarian cancer I'm sorry, strike that.  |
| 24   | THE WITNESS: I said that that was one   | 24   | For occupational exposures you found no   |
| 25   | possible explanation.   | 25   | increase in risk of ovarian cancer, correct?  |
|  | Page 203  |  | Page 205  |
| 1  | BY MR. HEGARTY:   | 1  |   |
| 2  |   |  | A. I'm trying to remember where we reported   |
|  | Q. Now, you looked at dose response in this   | 2  | that in the paper. Right. In the paragraph below  |
| 3  | study, correct?  A. Yes, we considered that.  | 3<br>4   | that we report an odds ratio of 1.31. And the   |
| 4  |   |  | confidence interval does include one, so it was not   |
| 5<br>6   | Q. You found you reported on a dose   | 5<br>6   | statistically significant. And as I recall, that was  |
|  | response for only any powder use, correct?  | 7  | a pretty small number of women who reported   |
| 7  | MR. FARIES: What table are we looking at?   |  | occupational use.   |
| 8  | MR. HEGARTY: I'm sorry, for let me  | 8  | Q. Did you also report in this study that you   |
| 9  | back let me break that up. I'm still Table 2.   | 9<br>10  | found that most studies show no association to  |
|  | Lante /   |  | nonconital yea?   |
| 1 1 1  |   |  | nongenital use?   |
| 11   | MR. FARIES: All right.  | 11   | A. I think that we did make that statement in   |
| 12   | MR. FARIES: All right. THE WITNESS: Okay.   | 11<br>12   | A. I think that we did make that statement in here.   |
| 12<br>13   | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY:   | 11<br>12<br>13   | <ul><li>A. I think that we did make that statement in here.</li><li>Q. Did you make a statement anywhere in this</li></ul>  |
| 12<br>13<br>14   | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in   | 11<br>12<br>13<br>14   | <ul><li>A. I think that we did make that statement in here.</li><li>Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?</li></ul>  |
| 12<br>13<br>14<br>15   | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct?   | 11<br>12<br>13<br>14<br>15   | <ul> <li>A. I think that we did make that statement in here.</li> <li>Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?</li> <li>A. No, I did not make no, that statement</li> </ul>   |
| 12<br>13<br>14<br>15<br>16   | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2  | 11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>A. I think that we did make that statement in here.</li> <li>Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?</li> <li>A. No, I did not make no, that statement was not made in this paper.</li> </ul>   |
| 12<br>13<br>14<br>15<br>16<br>17                                     | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use.  | 11<br>12<br>13<br>14<br>15<br>16   | <ul> <li>A. I think that we did make that statement in here.</li> <li>Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?</li> <li>A. No, I did not make no, that statement was not made in this paper.</li> <li>Q. Can you cite for me any epidemiologic</li> </ul>   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18                               | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who   | 11<br>12<br>13<br>14<br>15<br>16<br>17                                     | <ul> <li>A. I think that we did make that statement in here.</li> <li>Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?</li> <li>A. No, I did not make no, that statement was not made in this paper.</li> <li>Q. Can you cite for me any epidemiologic study where the authors determined a statistically</li> </ul>  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18                               | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who reported it for less than 20 years, 1.33, for greater   | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                               | <ul> <li>A. I think that we did make that statement in here.</li> <li>Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?</li> <li>A. No, I did not make no, that statement was not made in this paper.</li> <li>Q. Can you cite for me any epidemiologic study where the authors determined a statistically significant increase in risk of talcum powder use in</li> </ul>   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who reported it for less than 20 years, 1.33, for greater than 20 years the odds ratio was 1.52 with a  | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                   | A. I think that we did make that statement in here.  Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?  A. No, I did not make no, that statement was not made in this paper.  Q. Can you cite for me any epidemiologic study where the authors determined a statistically significant increase in risk of talcum powder use in ovarian cancer that exceeded 2.0?   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who reported it for less than 20 years, 1.33, for greater than 20 years the odds ratio was 1.52 with a significant p-value for trend. So that does indicate   | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | A. I think that we did make that statement in here.  Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?  A. No, I did not make no, that statement was not made in this paper.  Q. Can you cite for me any epidemiologic study where the authors determined a statistically significant increase in risk of talcum powder use in ovarian cancer that exceeded 2.0?  MR. FARIES: Objection to the form.   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | MR. FARIES: All right. THE WITNESS: Okay.  BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who reported it for less than 20 years, 1.33, for greater than 20 years the odds ratio was 1.52 with a significant p-value for trend. So that does indicate a significant trend with duration of use for any             | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | A. I think that we did make that statement in here.  Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?  A. No, I did not make no, that statement was not made in this paper.  Q. Can you cite for me any epidemiologic study where the authors determined a statistically significant increase in risk of talcum powder use in ovarian cancer that exceeded 2.0?  MR. FARIES: Objection to the form.  THE WITNESS: I I'm sorry, tell me        |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | MR. FARIES: All right. THE WITNESS: Okay. BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who reported it for less than 20 years, 1.33, for greater than 20 years the odds ratio was 1.52 with a significant p-value for trend. So that does indicate a significant trend with duration of use for any genital use. | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23 | A. I think that we did make that statement in here.  Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?  A. No, I did not make no, that statement was not made in this paper.  Q. Can you cite for me any epidemiologic study where the authors determined a statistically significant increase in risk of talcum powder use in ovarian cancer that exceeded 2.0?  MR. FARIES: Objection to the form.  THE WITNESS: I I'm sorry, tell me again. |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22       | MR. FARIES: All right. THE WITNESS: Okay.  BY MR. HEGARTY: Q. For duration you found no dose response in any group, correct? A. Okay. We are looking at Table 2 Q. Duration of use. A in duration of use. So the women who reported it for less than 20 years, 1.33, for greater than 20 years the odds ratio was 1.52 with a significant p-value for trend. So that does indicate a significant trend with duration of use for any             | 11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21             | A. I think that we did make that statement in here.  Q. Did you make a statement anywhere in this paper that body powder use causes ovarian cancer?  A. No, I did not make no, that statement was not made in this paper.  Q. Can you cite for me any epidemiologic study where the authors determined a statistically significant increase in risk of talcum powder use in ovarian cancer that exceeded 2.0?  MR. FARIES: Objection to the form.  THE WITNESS: I I'm sorry, tell me        |

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Page 208 Page 206 1 epidemiologic study where the authors determined a 1 A. No, I have not. 2 statistically significant increase in risk greater 2 Q. Have you ever done the kind of analysis 3 than two between perineal talc use and ovarian cancer? 3 you've done here with regard to talcum powder product 4 MR. FARIES: Objection to form. 4 use in ovarian cancer where you've been paid by 5 THE WITNESS: Okay. We have already 5 plaintiffs' lawyers? A. No, I have never done anything like that. 6 talked about one instance of that. In the 6 7 7 Q. Have you ever done any kind of analysis Cramer paper it was greater than two for the like you've done here where you've reviewed deposition 8 sample of African-American women. But, again, 8 testimony and other materials generated in litigation? 9 we have talked about the imprecision of that 9 10 estimate based on the small sample size. 10 A. No, I have not. 11 And I -- I know that there have -- other 11 Q. Have you ever done any type of analysis studies have reported a relative risk greater 12 like you've done here for any cosmetic other than 12 13 than two. I do not recall on the individual 13 talcum powder products? 14 14 studies if it was statistically significant A. No, I have not. 15 right off the top of my head. 15 Q. How about with regard to any other mineral 16 BY MR. HEGARTY: 16 besides talcum powder? 17 Q. Are you aware of any paper where the 17 A. No, I have not. Q. In terms of the process you've talked authors reported an overall increase in risk that's 18 18 19 about in reaching your opinions in this case, have you 19 statistically significant in excess of two between ever published in any peer-reviewed publication the 20 perineal talc use and ovarian cancer? 20 21 steps that you took here to come to your opinions? 21 A. So my answer is the same as for the last 22 22 question that there have been some papers that have MR. FARIES: Objection to form. 23 reported an odds ratio greater than two but off the THE WITNESS: Have I ever described the 23 24 top of my head, I don't recall whether or not they steps I took to evaluate talc and ovarian 24 25 25 were statistically significant. cancer? Page 207 Page 209 1 1 Q. Dr. Moorman, have you ever -- strike that. BY MR. HEGARTY: 2 2 Q. Yes. In any published, peer-reviewed Dr. Moorman, before being contacted by 3 piece of literature? 3 Plaintiffs' lawyers in this case, had you ever done 4 4 any type of analysis, review and come to opinions as A. I have not. 5 you have done here in any situation involving any 5 MR. FARIES: Objection to form. 6 exposure or any disease? 6 BY MR. HEGARTY: 7 7 MR. FARIES: Objection to form. Q. I'm sorry, what was the answer? 8 THE WITNESS: I think that every time we 8 A. I said I have not. 9 write a paper, we are considering all of the 9 Q. Other than -- strike that. 10 data and coming to an opinion, so I would argue In terms of -- Dr. Moorman, do you agree 10 that I have done that many times. 11 that all women are at risk for developing ovarian 11 12 BY MR. HEGARTY: 12 cancer? 13 Q. Have you ever done the same analysis 13 MR. FARIES: Objection to form. THE WITNESS: I would say that all women 14 here -- strike that. 14 15 Have you ever done analysis like you did 15 who have ovaries are at risk for developing here and came to the conclusion that any other 16 16 ovarian cancer. 17 exposure caused or causes any other disease? 17 BY MR. HEGARTY: 18 A. I have never used the phrasing "cause." I 18 Q. With regard to women who have ovaries, 19 have certainly used the phrasing "increased risk." 19 what is their lifetime risk of developing ovarian 20 Q. Have you ever done an analysis looking at 20 either an increased risk -- looking at either 21 A. That is typically reported as about a 1.3 21 increased risk or cause where you've received to 1.4 lifetime probability. 22 22 23 materials from a plaintiff's lawyer? 23 Q. Ovarian cancer existed before any talcum 24 A. Other than this case? 24 powder product was ever used by women, correct?

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25

A. Yes.

25

Q.

Yes.

|     | Page 210  |          | Page 212  |
|-----|---|----------|---|
| 1   | Q. Ovarian cancer would still exist if women                                      | 1        | defined mutation in, like, BRCA1 or BRCA2. And so   |
| 2   | stopped using talcum powder products, correct?                                    | 2        | it's contrasting those the genetic the strong   |
| 3   | A. Yes.   | 3        | genetic association versus the ones without that.   |
| 4   | Q. Ovarian cancer occurs in women who have  | 4        | Q. If a woman's lifetime risk generally is  |
| 5   | never been exposed to any talcum powder product,                                  | 5        | 1.3 to 1.4, what is the lifetime risk of a woman who  |
| 6   | correct?  | 6        | uses talcum powder products?  |
| 7   | A. Yes.   | 7        | MR. FARIES: Objection to form.  |
| 8   | Q. And any woman who used a talcum powder   | 8        | THE WITNESS: We are talking about the   |
| 9   | product was still at risk for ovarian cancer without                              | 9        | relative risk. Most of the meta-analyses  |
| 10  | regard to the use of the talcum powder products,                                  | 10       | conclude that there is a relative risk of about   |
| 11  | correct?  | 11       | 1.25, so multiplying 1.4 by 1.25 gives you a  |
| 12  | A. Yes.   | 12       | lifetime risk of approximately 1.7 percent,   |
| 13  | Q. And there are women who develop ovarian  | 13       | something like that. When and, of course,   |
| 14  | cancer who have no known risk factors, correct?                                   | 14       | when you apply it to millions of women, that  |
| 15  | MR. FARIES: Objection to form.  | 15       | small difference becomes more important.  |
| 16  | THE WITNESS: Yes.   | 16       | BY MR. HEGARTY:   |
| 17  | BY MR. HEGARTY:   | 17       | Q. What is the latency period by which use of   |
| 18  | Q. And as to all of the women in this case,                                       | 18       | talcum powder products can cause ovarian cancer?  |
| 19  | if you had been able to talk to them at a young age,                              | 19       | MR. FARIES: Objection to form.  |
| 20  | you could not have assured them that they would not                               | 20       | THE WITNESS: It is usually very difficult   |
| 21  | get ovarian cancer if they never used a talcum powder                             | 21       | to establish with precision what the latency  |
| 22  | product, correct?   | 22<br>23 | period is for any given exposure. Many times it   |
| 24  | MR. FARIES: Objection to form.  THE WITNESS: You could not assure them of         | 23       | is thought that the latency period can be many  |
| 25  | that because ovarian cancer is not caused by one                                  | 25       | decades.  |
| 23  | Page 211  |          |   |
|     |   |          |   |
| 1   | single risk factor.   | 1        | BY MR. HEGARTY:   |
| 2   | BY MR. HEGARTY:   | 2        | Q. Well, do you have an opinion as to how   |
| 3   | Q. So no single risk factor can be the cause                                      | 3        | long a woman must use a talcum powder product for it  |
| 4   | of an ovarian cancer; is that what that what you're                               | 4        | to be a for it to cause ovarian cancer?   |
| 5   | saying?   | 5<br>6   | MR. FARIES: Objection to form.  THE WITNESS: For an individual woman, I                       |
| 6   | A. No, I am I am not saying that. I am  | 7        |   |
| 7 8 | saying that there is no single risk factor that accounts for all ovarian cancers. | 8        | would not have an opinion, and I also do not<br>think that we have the data that we could say |
| 9   | Q. Ovarian cancer occurs even in the absence                                      | 9        | we could say that how many applications, how  |
| 10  | of risk factors, correct?   | 10       | long is too much. I don't think we can identify   |
| 11  | MR. FARIES: Objection to form.  | 11       | any safe period of use.   |
| 12  | THE WITNESS: Ovarian cancer, something  | 12       | BY MR. HEGARTY:   |
| 13  | has to cause it, okay? And so it is accurate to                                   | 13       | Q. All right. Do you have the data to have  |
| 14  | say that sometimes it occurs in the absence of                                    | 14       | an opinion as to how long talcum powder products must   |
| 15  | known risk factors.   | 15       | be used or how frequent they must be used in order to   |
| 16  | BY MR. HEGARTY:   | 16       | actually increase the risk of ovarian cancer in a   |
| 17  | Q. That cause can be what's considered to be                                      | 17       | woman?  |
| 18  | sporadic, correct?  | 18       | MR. FARIES: Objection to form.  |
| 19  | MR. FARIES: Objection to form.  | 19       | THE WITNESS: I think my answer is just  |
| 20  | BY MR. HEGARTY:   | 20       | like for the previous question, that we don't   |
| 21  | Q. Do you know what the phrase "sporadic  | 21       | have that data.   |
| 22  | cause" means?   | 22       | BY MR. HEGARTY:   |
| 23  | A. In the epidemiology world, most often when                                     | 23       | Q. What is the volume of talcum powder  |
| 24  | the term "sporadic" is used, it is used to contrast it                            | 24       | exposure necessary to either cause or increase the  |
| 25  | with, like, a genetic cause or, like, for example, a                              | 25       | risk of ovarian cancer?   |

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| Page 362  |  |
|---|--|
| ERRATA  ERRATA  PAGE LINE CHANGE  REASON:  REASON: | 1 STATE OF NORTH CAROLINA 2 COUNTY OF DAVIDSON 3 CERTIFICATE 4 I, Amy A. Brauser, RPR, RMR, CRR, Registered 5 Merit Reporter/Certified Realtime Reporter, the 6 officer before whom the foregoing deposition was 7 taken, do hereby certify that the witness was duly 8 sworn by me prior to the taking of the foregoing 9 deposition; that the testimony of said witness was 10 taken by me to the best of my ability and thereafter 11 reduced to typewriting under my direction; that I am 12 neither counsel for, related to, nor employed by any 13 of the parties to the action in which this deposition 14 was taken, and further that I am not a relative or 15 employee of any attorney or counsel employed by the 16 parties thereto, nor financially or otherwise interest 17 in the outcome of the action.  This is on the 13th day of March, 2018.  20  Amy A. Brauser, RPR RMR CRR Notary Public # 20023030055 |
| 25 REASON:  1   | 24 25  |

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